

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/010996

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N9/12 A61K38/18 G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, Sequence Search, WPI Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/39410 A (TULARIK INC) 11 September 1998 (1998-09-11) T2K is TBK-1 page 5, lines 10-21, 16-21 page 4, lines 3,4	4-8,10
X	WO 00/08179 A (BIRD TIMOTHY A ; IMMUNEX CORP (US); VIRCA G DUKE (US)) 17 February 2000 (2000-02-17) IKR-2 is 94% identical with TBK-1 page 39, paragraph 2 page 40, paragraph 1 pages 53,54	5-8,10

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

22 December 2004

Date of mailing of the international search report

12.04.2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/44444 A (FURUTA MASAOKI ; SAKAI YUTAKA (JP); GLAXO WELLCOME KABUSHIKI KAISH (JP) 21 June 2001 (2001-06-21) IKK4 is TBK-1 pages 11, 12 page 3, lines 19,20 -----	5-8,10
A	WO 99/58558 A (INCYTE PHARMA INC ; PATTERSON CHANDRA (US); YUE HENRY (US); BANDMAN OL) 18 November 1999 (1999-11-18) Seq ID 3 is TBK-1 pages 23,24,26; sequence 3 -----	4-10
P,X	WO 2004/012673 A (KUAI JUN ; LIN LIH-LING (US); WYETH CORP (US); NICKBARG ELLIOTT (US);) 12 February 2004 (2004-02-12) Seq ID 13, NAK is TBK-1 page 39, lines 26-32; claim 49 -----	5-8,10
P,X	US 2003/232771 A1 (DOBIE KENNETH W ET AL) 18 December 2003 (2003-12-18) MARK3 is TBK-1 claims 17,19,20 -----	5-8,10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/010996

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-4, 11-15 (fully); 5-10 (partly)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1

Claims 1 to 4 and 11 to 15 all relating to the use of TBK-1 protein or the gene encoding it, as well as claims 5 to 10 as far as they relate to inhibitors based on the TBK-1 gene sequence, i.e. antisense oligonucleotides, antisense RNA or siRNA

Invention 2

Claims 5 to 10 as far as they relate to the use of the small molecular weight molecules of Fig. 11, i.e. the substances PLX002-A10 and PLX025-F7

INTERNATIONAL SEARCH REPORT

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